

mer S.

1 December 1970

MEMORANDUM FOR: Chairman, MC&G Working Group

ATTENTION

:

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SUBJECT

:

MC&G Input for COMIREX Quarterly
Report to USIB

REFERENCE

:

COMIREX-D-16.2 Document Series

1. Bob, as promised in our (somewhat) recent telecon, the following points may be helpful to you in developing MC&GWG inputs for the COMIREX Quarterly Report to USIB.

2. First-off, as baseline reference, I am forwarding the attached "sanitized" version of the actual content of the MC&G sections of previous quarterlies. Essentially this package updates the two samples sent to under my 20 March 1970 memo (also attached). You can see from these exactly what we have been saying and the points regularly covered. Beyond this, I am open to any suggestions you may have, either as to the elements to be covered regularly in wrapping up a quarter or as to any special points for emphasis in future quarters as we come up on them.

3. The "schedule" for inputs is, to say the least, highly flexible and indeed somewhat erratic. Theoretically, it would run something like this:

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NRO review(s) completed.

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- Since the reports routinely cover the regular calendar quarters, any input for the period are desired as soon as feasible, within a week or two, after the close of quarter. For routine scheduling you could take the 7th or 15th of the month following the close of each quarter (January-April-July-October) as the normal due date for the material to be in my hands.
- Actually, in recent issues we have been running quite late--primarily due to delay in getting complete mission readouts from NPIC. What this means from your point of view is simply that if you come up with a significant point after the mid-month "deadline", above, there is still a good chance we could get it in. In short, simply be impressed, not awed, by our deadlines.

4. As to content, the ball initially goes to you. You can see from the attached what we regularly cover--if you want to modify or add to this standard format just give me the word. In short, I would like to be sure that whatever we say reflects the points the MC&G people feel should be made. Criteria for content is simply any development or activity during a quarter that USIB members should be aware of.

[Redacted]
Executive Secretary

Committee on Imagery Requirements and Exploitation

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Attachments

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MAPPING, CHARTING, AND GEODESY cont.

partially covered by usable photography, but where successful collection would facilitate completion of a large number of priority maps and charts. About six percent of the mission film, amounting to some 588,000 square nautical miles in gross coverage, was expended against MC&G requirements, with a net usable return as shown below of some 27,000 square n.m. coverage of Communist territory and 89,000 square n.m. coverage of territory outside the bloc. Satisfaction of the MC&G requirements remains difficult due to a reduced KH-4 launch rate and the continuing press of high priority intelligence requirements.

8. The status of cumulative MC&G area coverage as of 30 June 1970 stands as follows (all figures in square nautical miles):

Region	Total Coverage Required	Mission 1110 Collection	Estimated Net Usable Photography Held	Remaining for Collection
USSR/EuSats/Chi	8,513,000	27,000	8,100,000	413,000
Equatorial Belt*	5,903,000	11,000	1,378,000	4,525,000
Remaining Territory	11,168,000	78,000	9,210,000	1,958,000

Note: Due to the continuing reassessment of usable photography held by TOPOCOM it will not be possible to correlate the above totals with the previous reports' totals.

* The Equatorial Bad-Weather Belt (Equatorial Belt) is shown in shading on the opposite page (Chart 2). It has been isolated because of perennial bad weather which makes photographic coverage extremely difficult.


/Extract/**MAPPING, CHARTING, AND GEODESY cont.**

9. The MC&G requirement for Doppler coverage over the USSR and China on KH-4 missions is directed to satisfaction of the DoD targeting objectives for U.S. long-range missile systems. The objectives require that by 1970 positioning data on Sino-Soviet targets be accurate to within 450 feet horizontal and 300 feet vertical, with 90 percent assurance relative to the World Geodetic System. The requirement presently comprises a total of 5,877 targets, of which 1,124 are designated as Category I and 4,753 as Category II. Mission 1109, carrying the first beacon, had achieved acceptable coverage of 893 of the Category I and 2,207 of the Category II targets. Analysis of the results of Mission 1110 are not yet available. Preliminary estimates, however, indicate successful coverage of approximately 20 percent of the remaining Category I and II requirements was achieved.

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MAPPING, CHARTING, AND GEODESY cont.

Communist territory and 17,000 square n.m. coverage of territory outside the bloc. Satisfaction of the MC&G requirements remains difficult due to a reduced KH-4 launch rate and the continuing press of high priority intelligence requirements.

6. The status of cumulative MC&G area coverage as of 31 March 1970 stands as follows (all figures in square nautical miles):

Region	Total Coverage Required	Mission 1109 Collection	Estimated Net Usable Photography Held	Remaining for Collection
USSR/EuSats/Chi	8,513,000	9,000	8,070,000	443,000
Equatorial Belt*	5,903,000	-	1,367,000	4,535,000
Remaining Territory	11,168,000	17,000	9,134,000	2,031,000

Note: Due to the continuing reassessment of usable photography held by TOPOCOM it will not be possible to correlate the above totals with the previous reports' totals.

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MAPPING, CHARTING, AND GEODESY cont.

Report on Activity

5. The following figures are in square nautical miles. The areas are divided to reflect coverage of:

a. The USSR, the European Satellites, and Communist China (USSR/EuSats/Chi).

b. The Equatorial Bad Weather Belt (Equatorial Belt). This belt is shown in shading on the opposite page (Chart 2). It has been isolated because of perennial bad weather which makes photographic coverage extremely difficult.

c. The remainder of the world.

	<u>USSR/EuSats/Chi</u>	<u>Equatorial Belt</u>	<u>Remainder</u>
Requirement (sq. n.m.)	8,513,000	5,903,000	11,168,000
Collected by 1108	11,000	--	12,000
Estimate of Usable Photography Held	8,061,000	1,368,000	9,118,000
Remaining to be Collected	452,000	4,535,000	2,050,000

Note: Due to the continuing reassessment of usable photography held by TOPOCOM it will not be possible to correlate the above totals with the previous reports' totals.

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MAPPING, CHARTING, AND GEODESY cont.

Report on Activity

3. The following figures are in square nautical miles. The areas are divided to reflect coverage of:

- a. The USSR, the European Satellites, and Communist China (USSR/EuSats/Chi).
- b. The Equatorial Bad Weather Belt (Equatorial Belt). This belt is shown in shading on the opposite page (Chart 2). It has been isolated because of perennial bad weather which makes photographic coverage extremely difficult.
- c. The remainder of the world.

	<u>USSR/EuSats/Chi</u>	<u>Equatorial Belt</u>	<u>Remainder</u>
Collected by 1107	<div style="border: 1px solid black; height: 40px; width: 100%;"></div>		
Estimate of usable photography held			
Remaining to be collected			
	8,049,000	1,368,000	10,755,000
	464,000	4,726,000	1,390,000

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20 March 1970

MEMORANDUM FOR: Chairman, Mapping, Charting and Geodesy

SUBJECT: COMIREX Quarterly Report to USIB

1. Lloyd, as you know, we are trying to come up with a better format and more meaningful content for the Quarterly Report to USIB. We are now soliciting suggestions from the interested parties. [] recently spoke to your troops on this and I gather you've had some trouble getting these multi-slugged reports into the hands of some of your people for review.

2. I have extracted the MC&G sections of the last two Quarterly reports and with some minor slight of hand brought them into the straight T/KH classification. You may find the attached copies helpful in soliciting comments and suggestions from your people on what you would like covered in the up-coming 1st Quarter 1970 issue. That is due out the latter part of April and will cover developments during that period and the status of things as of 31 March 1970.

3. While I cannot give any guarantee as to what we will finally use, I would appreciate any suggestions on the MC&G section's format and content -- also any contributions of data or language you might have for inclusion in the next report.



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